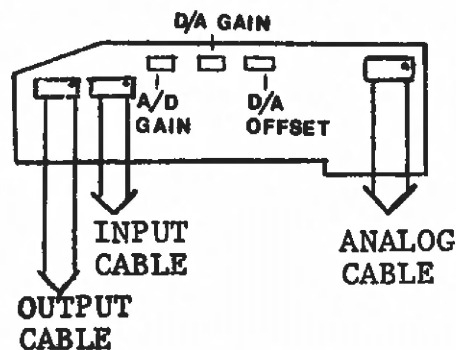




**Interactive Microware, Inc.**  
**P.O. Box 771**  
**State College, Pa 16801**  
**(814) 238-8294**

Attention: ADALAB Users

ADALAB is shipped with jumpers set for installation in SLOT 2 and a range of +4 volts. The cables of the self-test adapter should be plugged into the sockets of the ADALAB card as shown, with pin 1 at the upper right.



The self-test adapter connects the parallel outputs to the parallel inputs. It also connects D/A to A/D+ and A/D- to GND. You may connect your instruments to the D/A or A/D converter after removing the two plastic jumpers. The jumpers may also be turned at right angles so that a 22 or 24 gauge wire can be inserted into the vacant hole from below. The jumpers should be returned to normal before running the self-test program.

Calibration Procedure Changes: A zero offset potentiometer adjustment has been added for the D/A converter, as shown in the figure above. After calibrating the D/A and A/D converters as described in the ADALAB Hardware Manual, set the D/A output voltage to zero and adjust the D/A offset pot to give an A/D reading of zero volts. This may necessitate a slight readjustment of the D/A and A/D gain pots.

If you have purchased both the ADALAB hardware and the VIDICHART software at the same time, the QUICKI/O disk contains an updated version called VIDICHARTAD. This program is described in the note in the back of the ADALAB manual entitled "Using the ADALAB A/D Converter with Curve Fitter VIDICHART and other



BASIC Programs." VIDICHARTAD requires an additional file called VISIOBJ, which is on the original disk for VIDICHART. Thus, to run VIDICHARTAD, you should first LOAD it from the QUICKI/O disk and then SAVE it on a copy of the VIDICHART disk before RUNNING the program. The VIDICHARTAD update also requires the ADOBJ file from the QUICKI/O disk. Therefore, you should also read ADOBJ from the QUICKI/O disk (type BLOAD ADOBJ,A\$320) and write it on the copy disk (type BSAVE ADOBJ,A4320,L\$50).





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#### ADALAB WARRANTY INFORMATION

Interactive Microware, Inc. (IMI) warrants each new ADALAB(tm) Interface Board against defects in material or workmanship for a period of 90 days from the date of purchase and agrees to repair or replace any defective unit without charge.

**IMPORTANT:** This warranty does not cover damage resulting from accident, misuse, or abuse, lack of reasonable care, modifications other than those done in accordance with instructions published by Interactive Microware, loss of parts or subjecting the product to service or repairs not performed by IMI or registered repair centers. This warranty applies only to the ADALAB Interface Board; IMI will assume no responsibility for damage to the Apple Computer or for damage to other peripherals or instruments to which ADALAB is attached.

Inasmuch as IMI does not have sufficient information to evaluate the suitability of ADALAB for any particular application, the purchaser is expected to understand the operational characteristics of this interface, as described in the documentation supplied by IMI, and to assess the suitability of ADALAB for his application.

This warranty is in lieu of all other warranties, expressed or implied, including warranties of merchantability and fitness for use. In no event will IMI be liable for incidental and consequential damages arising from or in any way connected with the use of its products.

The purchaser of this product is hereby notified that the probability of failure of this device is not zero, and that this product is **NOT RECOMMENDED** for any use in dangerous or hazardous situations in which its failure has a chance of causing injury, damage, death, or a human decision resulting in injury, damage or death.

1. The first part of the paper is devoted to a general discussion of the problem.

2. The second part is devoted to a detailed study of the case of a single particle.



3. The third part is devoted to a study of the case of a system of particles.

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ADALAB Warranty Information  
Page 2

This warranty extends only to the original purchaser. Proof of purchase is necessary for products returned for warranty service. To obtain service, return the product (postage paid) to:

IMI Repair Service Department  
P.O. Box 771  
State College, PA 16801

A detailed description of the problem must be included. After the warranty period expires, IMI will repair or replace the card for a charge that will vary from \$25 to \$150, depending on the parts and labor required. In such cases, the product will be returned by UPS C.O.D. unless a company purchase order or payment in full has been received.





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